Business presentation

English version, updated in January 2022

CREMETE is a new and ambitious initiative, born from the integration of the efforts of different professionals, borrowed from the sectors of industry, research, health, strategic consulting, with a shared passion and goal

GIVE YOUR CONTRIBUTION TO THE DIGITAL TRANSFORMATION AND ENTREPRENEURIAL INNOVATION OF OUR COUNTRY

Areas of activity of Cremete

Health

The arrival of new decentralized therapeutic paths through the use of devices and ICT technologies represent a real epochal turning point for health systems. The traditional paths of prevention, diagnosis and treatment of a patient are profoundly changing and the very concept of health changes. We are able to design and implement innovative models of programming, organization and management of services and performances that generate value for the citizen and the system.

Environment

Cremete is a reliable partner for providing environmental consultancy services:
- preparation and evaluation of plans and projects for rehabilitation environmental, for territorial development, for protected natural areas
- preparation and certification of environmental impact studies; strategic planning, planning and economic or environmental evaluation (Vas and via) of interventions and development plans of the territory
- territorial or corporate environmental reporting

Industry 4.0

The concept of Industry 4.0 aims to support technological and digital innovation within industrial processes and in particular aims at encouraging private investments in research, development and technological innovation projects. In this context, Cremete is able, thanks to the experience and competence of its collaborators, to support companies in order to define their real needs in the digital transformation process.

Our values

Vocation for innovation

We computerize business processes, guaranteeing their streamlining and improving the quality of life of those who use them. We support client companies by following them throughout the process: identifying the specific needs of the context in which they operate, developing innovative solutions and finally, supporting the staff in the use of the new system.

Value creation

Giving value to the customer means operating with an open and proactive attitude, circulating one's know -how how and skills to generate value within your company and share it with customers, partners and stakeholders. For us, this means creating value and developing a participatory culture in which everyone feels active protagonists.

Focus on the customer

Our goal is to support customers in their growth path, improving performance and innovating business processes. We work with serenity and optimism, with a deep sense of responsibility in individual and team behaviors, translating our skills into concrete actions to meet the performance standards required by each project.

Resource quality

The skills of each resource in our company, our external collaborators and our Partners represent a shared heritage with all the other members of the work team. Furthermore, our company is committed every day to encourage and enhance the growth of all resources through training courses and participation in events.

Proven reliability

Our customers, after various experiences that are not always positive, have found in us a reliable, present, punctual supplier and also an interlocutor able to understand and satisfy all needs, in terms of speed in providing services, versatility of the proposed solutions. and availability in customer care.

Timeliness of intervention

We are constantly committed to ensuring that any critical issues on projects or customers are resolved as soon as possible and definitively. For this reason our team is prepared to take immediate action on any type of event that involves one of our clients.

Management consulting

We turn to customers, in particular from the public, private or partner sectors (on behalf of their customers) who are faced with organizational changes , personnel, accounting and internal controls, procurement and the consequent impacts on their operating procedures and computer science.

Strategic planning _

We support clients in a systematic process of formulating company objectives, identifying and managing resources, defining policies, and evaluating risks and opportunities. The activity is expressed in medium / long-term plans characterized by multi-year budgets.

Digital transformation

Digital transformation represents the profound change of activities and organizational processes, skills and business models, aimed at fully exploiting, in a strategic and priority way, opportunities that digital technologies are able to guarantee to companies.

ICT Assessment & Plan

technological and application infrastructure , human resources and services provided by the information system, with respect to the business requirements of the company. Next, the ICT Planning phase provides for the definition of a general master plan to achieve the identified improvements.

Innovation in ICT

The company has designed and is implementing several innovative ICT projects in the health sector which concern: Architecture and interoperability of Information Systems: Clinical Data Repository (CDR) ICT systems to support the internal process of providing digital services to citizens: ICT systems to support continuity of care:

Project management

We operate in such a way as to ensure that the success of a project is not a coincidence, but something that must be built by seeking excellence throughout its life cycle starting from the very early stages, when it will be necessary to evaluate the level of convenience of the expected returns and that the estimated risk profile is in line with the propensity to accept it.
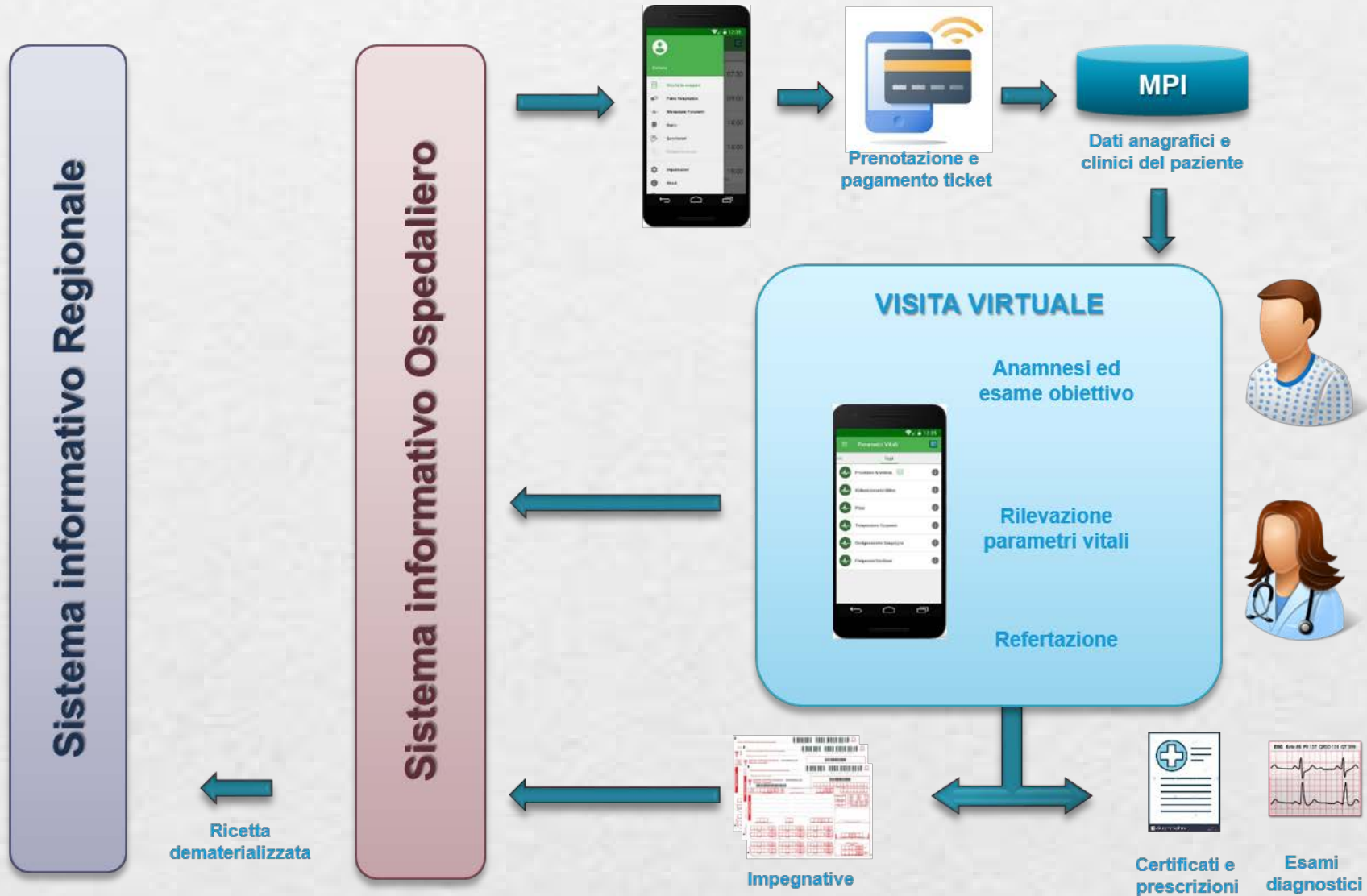
Reengineering _ processes

In our meaning, the re-engineering of processes is not limited to identifying critical points of inefficiency or ineffectiveness, but rather in a radical rethinking and questioning of the way to provide services by introducing new IT tools that allow services to be delivered in a totally different.

Management control

In this context , the primary objective of a hospital is to provide the best service at the lowest possible cost. Reason why the Healthcare Companies need to rationalize their production processes in order to find the best production combination in terms of effectiveness, efficiency and cost-effectiveness.

Virtual Clinics 1-2

Prenotazione e pagamento ticket

MPI

Dati anagrafici e clinici del paziente

Sistema informativo Regionale

Sistema informativo Ospedaliero

VISITA VIRTUALE

Anamnesi ed esame obiettivo

Rilevazione parametri vitali

Refertazione

Ricetta dematerializzata

Impegnative

Certificati e prescrizioni

Esami diagnostici

POLO MECCATRONICA VALLEY

❖ Virtual Outpatient Clinics represent a first piece of the mosaic of **digitalized Connected Care patient care services**

❖ The platform involves a **complex process supported by several applications that are interoperable with each other through a common ESB**

❖ The patient can interact with the doctor in a similar way to what happens in a specialist visit in the presence

❖ The clinical information collected, structured or not, is made common to the company through a centralized CDR

❖ The platform includes several digitized care services such as:

➢ **Remote television** integrated into the company CCE

➢ **Remote telemonitoring** that integrates home detection devices

➢ Specialized or multidisciplinary **teleconsultation**

➢ **-term care programs** (Cardiology, Oncology, Rehabilitation)
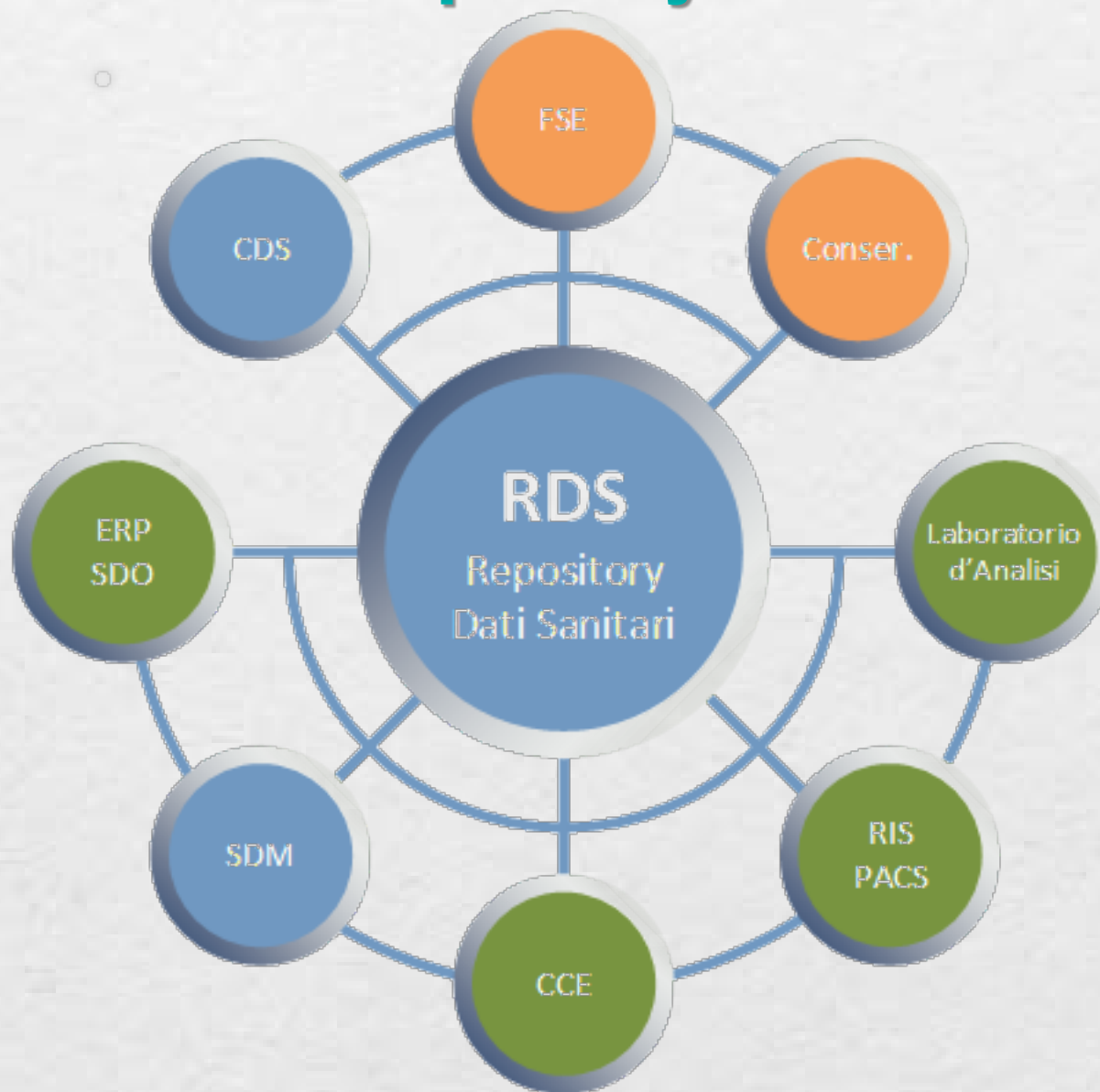
The project involved the implementation of an innovative solution logically transversal to the Hospital Information System (HIS) that would enhance the wealth of clinical data generated by the various vertical departments / applications that support them and at the same time guarantee interoperability between the various application areas. In this perspective, the Clinical Data Repository has a multiple value :

- ❖ **clinical - health:** as an enabling element for a single and unambiguous vision of the patient, which collects the data and reports produced during the various events that characterize a course of care, the repository is characterized by the role of a support tool for the daily delivery activity assistance;

- ❖ **technological / architectural:** it acts as a central system at company level, i.e. as a single interface, on the one hand, within the SIO applications, and externally towards the ESF , assuming an essential role in the cooperation between systems and sub-systems that share information;

- ❖ **organizational:** as an element that decouples the departmental and departmental dimension from the corporate dimension, it guarantees full autonomy to the company, in terms of managing the information assets at different corporate levels;

- ❖ **information :** as an original element for the establishment of the centralized repository at company level, standardized and independent of the feeding systems, which represents a fundamental tool for : epidemiological, clinical, managerial and economic purposes.
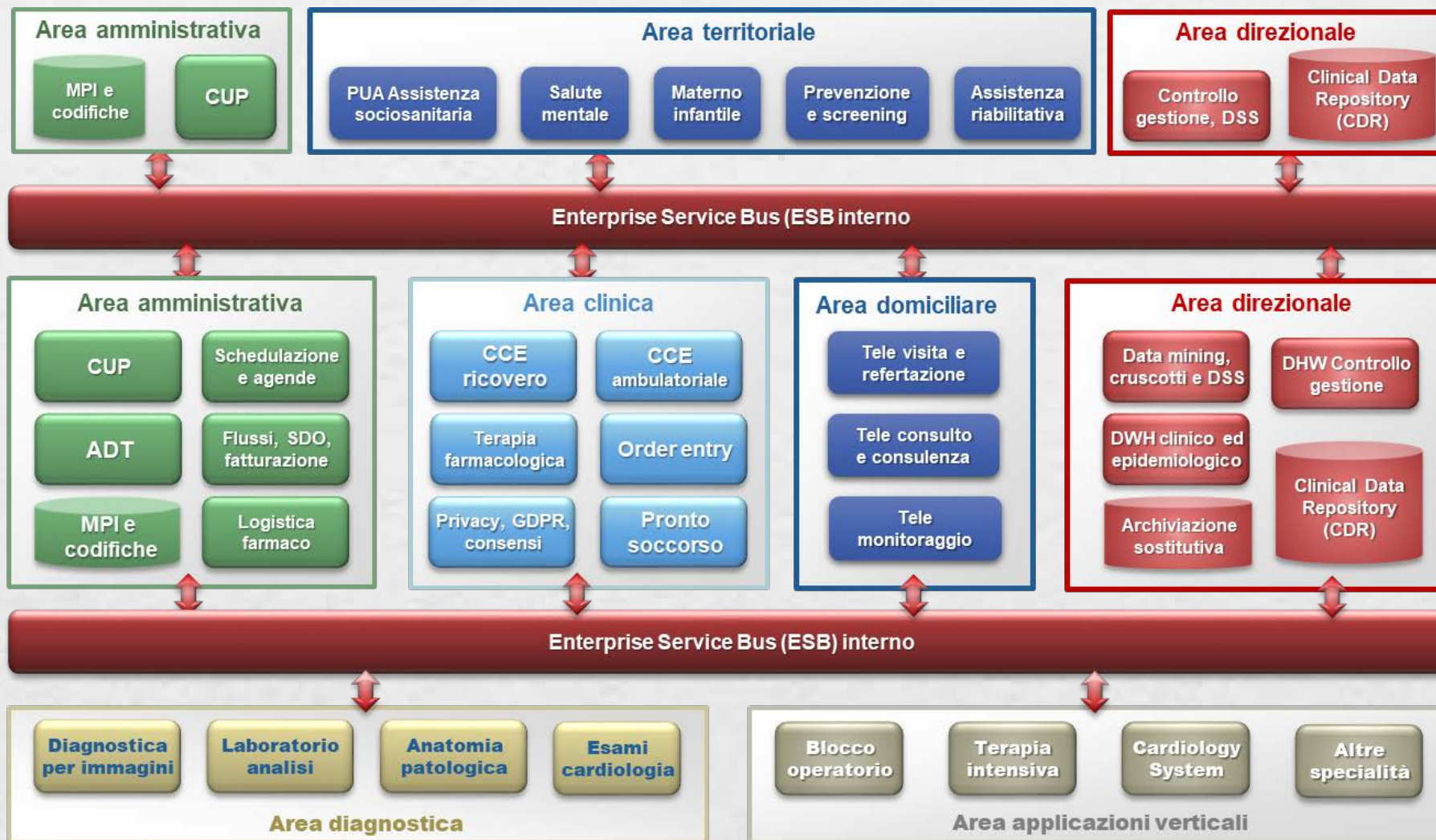
❖ The **Hospital Information System (HIS)** must pass from a monolithic vision with point-to-point interactions between the various applications that compose it, to a **set of natively interoperable systems in a standardized way through a common ESB and which feed a centralized CDR**

❖ It is essential to provide a very performing **interoperability and application orchestration (ESB) system** to ensure that the relevant data flows are manageable with the necessary guarantees of reliability, availability and security.

❖ The **standardization and automatic sharing of personal data** (patients, structures, healthcare professionals, etc.) **and of the codes** used at level in the various systems of the IIS (DRG, LOINC, ICD9-CM, etc.) must be obtained through **centralized Master systems. Patient Index (MPI) and Master Data Management (MDM)**

❖ This architecture is enabling towards the introduction of **digitalized patient care services of the Connected Care type and for the transmission of structured data to the national and regional ESF.**
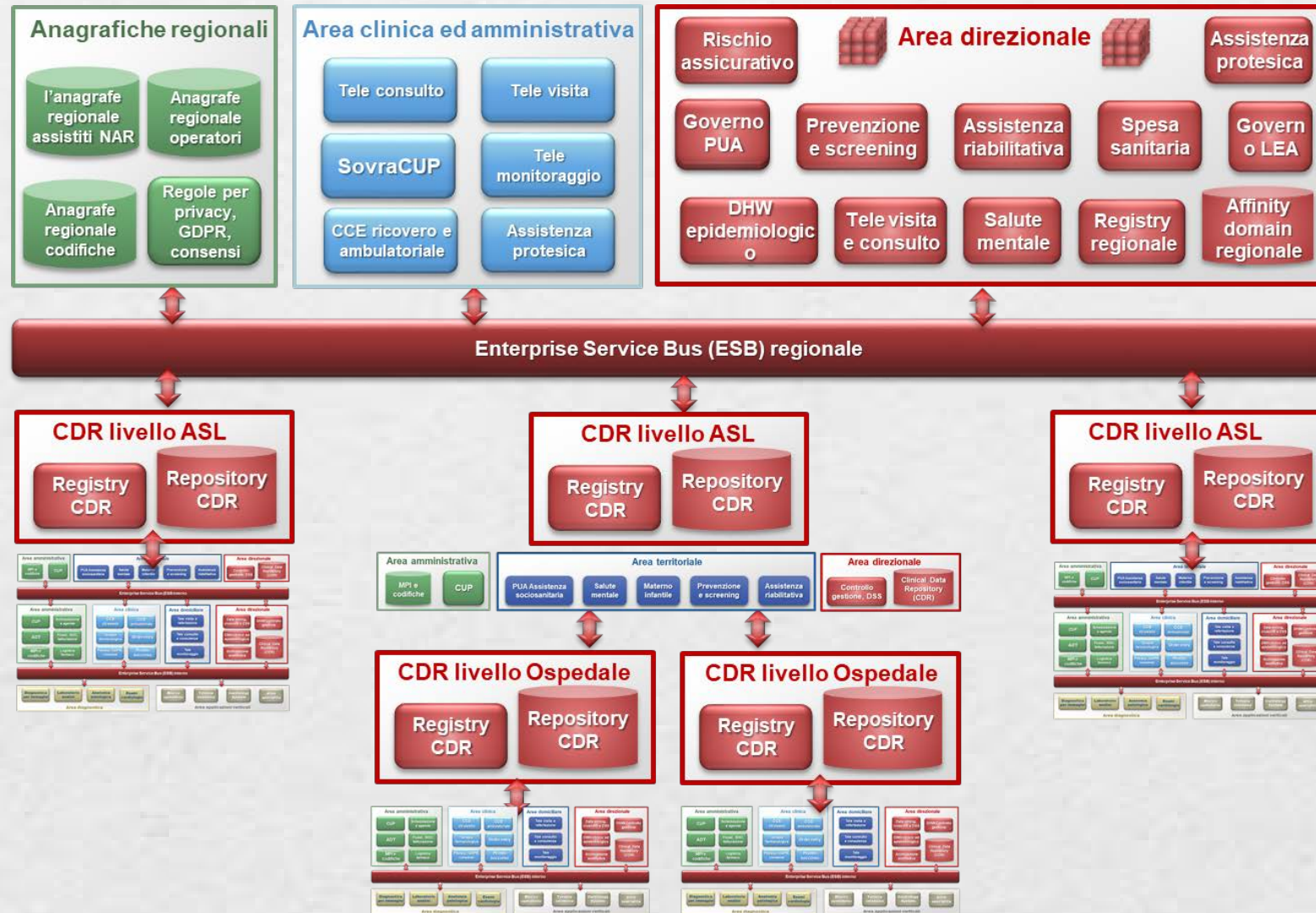
❖ It is essential to provide a very performing **interoperability and application orchestration system (ESB, WSO)** to ensure that the relevant data flows are manageable with the necessary guarantees of reliability, availability and security.

❖ We must push on **the standardization of personal data** (structures, human resources, citizens, companies, etc.) **and of the codes** used at the regional level

❖ We must proceed towards the creation of federated repositories with a registry at the regional level and local registry . The data contained will be structured in specific standard formats for the different clusters using standards such as: **HL7-IHE, FIRH, XBRL** , etc.

❖ It will be necessary to **extend the current domains** of the aforementioned standards by developing further use cases and extending their encodings in order to guarantee an information level appropriate to the needs of the events.

Assumptions of the Regional Healthcare Cluster

❖ Ensuring the coherence of the Healthcare cluster entails the need to manage the following elements in a structured and permanent way at the regional level:

➢ **Personal data of patients and health workers**

➢ Clinical coding data (LOINC **, ICD-C9** , structures in the area, etc.)

➢ **Health codes defined by IHE (Integrating the Healthcare Enterprise)** , essential for the distribution of health information between different systems. This element also includes the centralized management of definitions common to exchanged **CDA2 format transactions** and a regional Affinity domain. profiles;

❖ From the point of view of messaging, on the **regional ESB** this should be based on the **HL7 v.2.6 or v.3, FIHR / CDA 2.0 standards** . Within companies, the previous version **HL7 v2.5** can be used, if necessary for integration with pre-existing applications that already use it, providing the appropriate mapping towards the higher version. For image processing, the default standard is **DICOM (Digital Imaging and Communications in Medicine).**

❖ The generally defined operating logic envisages the presence of a series of **CDR Clinical Data Repositories** fed in **HL7-IHE format,** including a local Registry , located in the **ASPs** and in the territorial structures of the Sicily Region

❖ The data present in the local **Registries** will also be indexed in a **regional Registry** placed at a higher hierarchical level than the **local Registry**

❖ A regional **Affinity domain** is required that defines the rules to be applied to associate a value to each metadata transported in the transactions defined by the **HL7-IHE profiles** . The metadata is associated with a specific entity such as, for example, an **XDS-b document** produced within the regional domain itself

❖ The regional systems will be able to query and aggregate the indexed and standardized data in the regional registry so that they can feed the staging area and data mart of the Datawarehouses (DHW) aimed at monitoring the trend of phenomena in the territory and supporting decisions for the health and economic governance of regional health
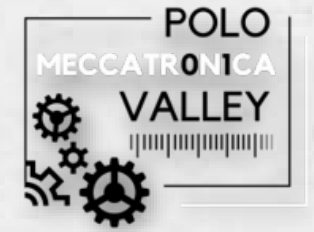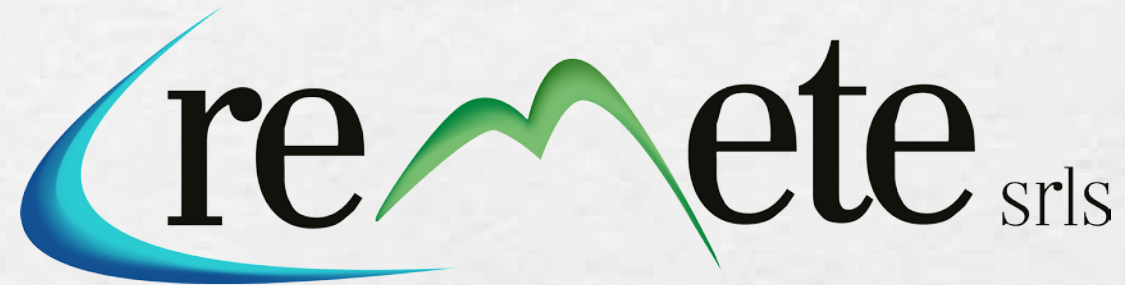
Thanks for your attention

LEGAL AND OPERATIONAL

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